

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: wb0poq@visi.com (Bob Liesenfeld)
Subject: [652] 49'er
Message-ID: <199607092012.PAA21734@mixer.visi.com>

Hi gang,

Here is my answer to the harmonic troubles of the 49'er:

Change C17 from 270pF to 740pF, C18 from 470pF to 820pF, and RFC5 to 1.1uH.
Results: 1W out at 12VDC, all harmonics are greater than 30dB below carrier.
72

Bob WB0POQ
Bob L. wb0poq@visi.com

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Dale Anderson <dalea@artemis.fc.hp.com>
Subject: [637] 49'er TX Shift...?
Message-ID: <199607091601.AA135388086@artemis.fc.hp.com>

Ok, all you 49'er gurus,

Is there a mod to change the TX frequency offset to something other than ~-100Hz? I've studied the schematic and can't quite see how this shift is accomplished.

After putting the Final in last night and testing it with my FT-990 I discovered something. The TX carrier from the 49'er, when zero beat on my Yaesu to 700Hz, yielded about a 10Hz tone on RX when xmitting with the Yaesu. A nearly inaudible frequency. Assuming others will zero beat my sig in a similar fasion, it would be nice if I didn't have to listen to their CW at 10Hz. So, how is the frequency shift accomplished and controlled? Which components and what are they doing to the VX0?

Thanks for any insight,
-Dale, KB0VCC

P.S. ...And to the individual and whoever took offense at my previous email. The intent of the post was to share with the group, MY experience with the kit. For the

most part, it has been positive (that should have been obvious to those reading who possess even marginal intellect). Others have done the same. If missing components are part of my experience I'm going to mention them too. It is constructive feedback to NorCal as well as the group. I've enjoyed my experience with this kit and was not bashing on NorCal or the 49'er. Heck, I went out and BOUGHT the missing parts myself rather than bother NorCal for them. I've put lots of energy into this project and wouldn't be doing so had I had a real gripe with it. If my post is read in the spirit it was written with NOTHING taken out of context this should again be obvious. I apologize to those who are unable to see that.

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: [629] Amidon
Message-ID: <199607091404.IAA17647@atd.atd.ucar.EDU>

Would someone please post the current address & telephone number for Amidon? I know they have changed their address and phone number but I can't find the new one. Thanks!

Chip Owens, NW00
Boulder, CO

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Michael A. Gipe" <71756.3631@CompuServe.COM>
Subject: [643] Amidon
Message-ID: <199607091332_MC1-57F-E4FA@compuserve.com>

Thanks to all who answered my plea for Amidon's correct address. I got several versions, and was able to track them down and actually talk to a live person at Amidon. For the record, here is Amidon's address and phone (from the horse's mouth):

Amidon Associates
3122 Alpine Avenue
Santa Ana, CA 92704

(714) 850-4660
fax (714) 850-1163

Thanks everyone!

Mike AG1H

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [660] Another CW vs. phone incident
Message-ID: <Pine.3.89.9607091958.A1867-01000000@w3eax.umd.edu>

I was just on 6m, running my standard 8w SSB to a dipole. K0ETC in St. Louis was very strong. I called but the path faded strongly. He had my call but couldn't get my name, signal report, or grid. I tried again in CW, and he got all of it.

He replied (paraphrasing): "The CW took me by surprise - but I can't read your audio at all, and the CW popped right through."

I answered him on phone but he seemed to not hear me (no reply when I finished). I sent 73 on CW and he replied, "OK, 73, thanks."

There is still no ready-to-use instrument more powerful than a well-trained human ear.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts ** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC ** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: maccary@on-ramp.ior.com
Subject: [621] Archeoferroequinology
Message-ID: <m0udVUQ-000b8PC@on-ramp.ior.com>

I wonder if Grover, WT6P, has ever been to Strasburg, Pa.? They have a really nice 2-C+C-2 GG-1 there that brought back fond memories for me. No telling how many thousands of miles I was pulled by one of those monsters during the war years and after as a commuting college student. I wonder if any of the old EF-2 's and EF-3's of the C,M,SP&P are out there somewhere?

This is NOT QRP, this is really heavy metal!

Mac--W0NAX

Lawrence M. MacCary --- A Subscriber at Internet On-Ramp, Inc.

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Michael A. Gipe" <71756.3631@CompuServe.COM>
Subject: [645] Chip caps
Message-ID: <199607091331_MC1-57F-E4F8@compuserve.com>

You wrote:

"

Has anyone built a QRP rig in the body of a blown glass fuse? With clear glass, you could easily show off your craftsmanship. The end caps could be used for RF and DC connections. In fact, you might even use a fuseholder as a dipole support.

Zack KH6CP/1

BTW, I just tested some 0402 cased chip caps at 10 GHz and they had pretty low loss.

"

I've found that the case size of chip caps has less to do with their performance at microwave frequencies than their composition. This means that you need to identify the manufacturer (and in some cases, the series) to make sure the parts will work at the frequencies you need them to. I've found Johansson to be pretty good Q (but I haven't tried them all the way to 10 GHz). One other thing to watch out for -- many high Q microwave chip caps are made for ceramic hybrid modules, and have silver or palladium terminations (contact areas). Standard caps have tin/nickel terminations, which solder very well to glass or teflon boards with copper traces. The silver ones will not form a reliable joint with normal tin/lead solder and 44 flux.

Regarding the fuse qrp enclosure: At 10 GHz, that must be like building an HF rig in a dance hall! I wonder how the radios that wildlife biologists use to track animals are packaged? Some of them must be pretty small.

BTW - I have enjoyed your articles and projects over the years. Many thanks.

Mike AG1H

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Tony Fishpool <101573.3220@CompuServe.COM>
Subject: [627] ERRATA Sprat 87
Message-ID: <960709135013_101573.3220_IHK136-1@CompuServe.COM>

Gang,

my project "A Spectrum Wavemeter" which appeared in the recent issue of Sprat contained some errors:-

Diode D3 should have been a 0A91 (or similar). It will not work too well (at all) with a 1N4148 as shown in Fig. 3 In the sketch (Fig 5) I should have shown a connection between the top of resistors R1/3/4/5 & R6 and the 12 volt supply.

Other changes I should have shown.

Capacitor C9 was changed to 270pF for a better response
and

R11 was removed but was still shown in the list of components.

I should mention that the errors are mine and not that of our esteemed editor. My apologies for anyone who has struggled to make the thing work. Anyone with shares in companies who make ferric chloride should rejoice. I have used an awful lot getting a PCB version to work as well as the "dead bug" style original.

Kind Regards
Tony - G4WIF

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: SNickrand@aol.com
Subject: [641] Feed lines
Message-ID: <960709124236_353412362@emout15.mail.aol.com>

Seeing the comments recently posted on this subject brought to mind some additional questions. I have a 40 m dipole with 450 ohm feedline. Does anyone know how to mate this to a resistive bridge type tuner (a QRP Delight, Oct, '95 73 mag). Someone also mentioned a "z network". What is it, where is info? Any comments would be appreciated. Bill Nickrand KB9KOL

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>
Subject: [668] FS: MINT HW-9
Message-ID: <31E36F37.4C6C@acsu.buffalo.edu>

One Heathkit HW-9 with WARC bands. All original (except for 2 new finals), no mods. Mint. I do not believe there is a visible scratch on the case.

Price is a firm \$295 including shipping to the lower 48.

I am going to a one rig operation for CW both home and /P and I cannot bear to take this rig out of the house, it is too nice.

My phone number, if you need it is 716-741-4470.

--

72's de Mark, N2VPK, Member of the Buffalo QRP Connection

TMPS 1996 Q's=118 WAS=27 Confirmed=05 DX=17
HW-9 @ 3W, MFJ941C, 142' Sloping Delta Loop
6W1 C6 CT3 DL EA ES HC LY LZ OM OZ SM U5 VE XE YT ZF
Worked all Canada= VE1 V01 VA2 VE2 VA3 VY2 VE6

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Warren E. Lewis" <saswel@unx.sas.com>
Subject: [635] FS: Ten Tec Century 21 Analog
Message-ID: <199607091513.AA25066@cardamom.unx.sas.com>

Gang,

I have a mint Century 21 with Crystal Calibrator and Single Lever Keyer that I need to part with to rid the shack of unused equipment. \$225 and I will ship anywhere in the US.

Also I have a NE-40-30(SWL-30) that I would be willing to part with for \$40.

cheers - Warren

AD4ZE TMPS 1996 Qs=030 States=13 Confirmed=08 DX=04 MM=01
MA AL MS FL IN IL TX NY CT NJ NH NC PA

--

Warren E. Lewis

saswel@unx.sas.com

Technical Support Division
SAS Institute Inc.
Cary, NC

(919) 677-8001 x6542
PP-ASEL
AD4ZE QRP-L#78 DOD#0021

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: wylde@nccn.net (Grover Cleveland)
Subject: [648] Have Norcal 40 - want Norcal 30
Message-ID: <199607091825.LAA23674@nccn.net>

Rather than reinvent the wheel by modifying this N-40, I thought I'd first try to trade for a N-30, if anyone is willing.

Grover

* Grover Cleveland WT6P
groverc@shasta.gvg.tek.com *
* Sr. Training Engineer
WT6P@aol.com *
* Grass Valley Group/Tektronix
71213.2741@compuserve.com *
*
*
* "Sorry - Windows made me this way."
*

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: JOppen6115@aol.com
Subject: [624] Keyer paddle connections??
Message-ID: <960709051139_151834340@emout09.mail.aol.com>

Can anyone tell me if there is a standard convention for how an iambic paddle is hooked up? I assume that the base is grounded, but I am unsure which paddle goes to the tip and ring of the phono plug.

Please respond directly to "JOPPEN6115@ aol.com" since I have trouble downloading the digests reliably.

Thanks for the help!
John, KJ6HZ

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: David Johnson <djohnson@acpub.duke.edu>
Subject: [622] KnightLite Round Table Report
Message-ID: <Pine.SOL.3.91.960709013813.1843A-1000000@bio7.acpub.duke.edu>

Here's a report from net control station (ncs) WA4NID on the KnightLite Round Table last Sunday (July 8, UTC 1996). The session was both challenging and fun. Summer noise levels seem to be getting even higher. After the net began a digital station came on and blasted my receiver. I gave a long call to go "DN 2 DN 2 DN 2 ..." and most everyone was able to follow a couple kHz lower. I was surprised at how well we were able to make the move, but it demonstrated the high level of operating skills of you QRPers! We were also plagued by someone sending CQ from something like 4A(-----)PET, but I don't know what the "dididididahdah" meant. I even called that station, but when he answered with a "?" I decided to just continue the net. Fading and high static makes the summer KL RT a real QRP challenge, but it's well worth the effort to connect with the stalwart ops !!

So here are the fine Knights that made it into the log (sig reports are those from ncs) for July 8, 1996 (UTC):

Call	Notes
-----	-----
WA4NID	ncs, 5 W
AE4AZ	339, 50 W
KC4URI	339, 5 W
K3QIO	449, 5 W
AA4XX	599, 5 W
WJ4P	
AD4ZE	599+10, c. 10 W
WJ2V	339, 3 W
N1QQV	559 QSB, 5 W
AC4QX	
W8KUX	Chas, MD, 559, 4 W

I was very happy to welcome Chas. I think he is a first-time check-in. Hope to hear more from W8KUX !

Please keep trying if you didn't make it in this time,

as we do ask for relays (QSP?) in case anyone hears a
sig that ncs does not copy.

I hope to hear YOUR sig soon, on 10 pm eastern local
time, Sunday nights (currently 0200 UTC Mondays),
3710 (approx.!) kHz!

72,

Dave WA4NID

David W. Johnson, Ph.D.	QRP ARCI 6546
Amateur Radio Extra WA4NID	G-QRP 4864
email: djohnson@acpub.duke.edu	NorCal 355
packet: WA4NID@KB4WGA.#DUR.NC.USA.NOAM	TSRAC 3482

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Peter Beedlow <nn9k@owrldnet.att.net>
Subject: [651] MFJ 90's Newsletter
Message-ID: <199607092001.UAA07631@mailhost.worldnet.att.net>

Need some help from someone this list that belongs to the MFJ 90's group and
receives the newsletter.

I would like to know if you have received a newsletter since the April
issue. AB5JE, the editor, and I are having a little disagreement about my
dues. I'm complaining and he's not responding! At any rate I need to know
if an issue has been published since April. Please respond to me directly.....

Thanks in advance for the assistance,

Pete, NN9K

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: SNickrand@aol.com
Subject: [671] more info
Message-ID: <960709232024_152525698@emout15.mail.aol.com>

My last message to you was rushed due to dinner being served, but here's the
info for the neatest thing around. Send a message to listserv@lehigh.edu
Type anything into the subject line you want; it will be ignored. In the body

type

SUBSCRIBE QRP-L <FIRST NAME> <LAST NAME> <CALL SIGN>

Almost immediately you will be receiving incoming messages. To post a message on the list, send it to qrp-l@lehigh.edu That's all there is to it. In just the last five days I have seen for sale an HW-8, HW-9, Norcal 40, Spiders, TenTec, etc, etc. You will also find operating hints, antenna ideas. You will also be able to access the archives and do searches for any topic you're interested in. Also equipment reviews.

WARNING: THIS CAN BE HIGHLY ADDICTIVE!!!!!! That's all for now. Let me know how you like it. 73's

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Warren E. Lewis" <saswel@unx.sas.com>
Subject: [636] NE-40-30(SWL-30) Sold
Message-ID: <199607091550.AA25207@cardamom.unx.sas.com>

> Also I have a NE-40-30(SWL-30) that I would be willing to
> part with for \$40.

The NE-40-30 is sold.

- Warren

--

Warren E. Lewis	saswel@unx.sas.com
Technical Support Division	(919) 677-8001 x6542
SAS Institute Inc.	PP-ASEL
Cary, NC	AD4ZE QRP-L#78 DOD#0021

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: tmh@world.std.com
Subject: [638] On Criticizing Norcal
Message-ID: <Pine.SGI.3.91.960709115733.4571A-100000@world.std.com>

Evidentially the "net police" on this list have determined that "Norcal can do no wrong."

They are entitled to their opinions. They can even call other posts "TRASH." Of course, this can not and should not silence other users of

the list. And they do a disservice to Norcal and others, by implying that individuals and groups that provide services to hams cannot take and learn from well-meaning critiques.

For the record, I bought and built Cascade #69. My kit was sent to the wrong address, and it took a week to determine that Doug had dropped a digit from the label, with about a dozen calls to Doug, the USPS at various sites, etc. When I got and checked the kit, I found that the front panel of the case was missing and that I had one of the extra capacitors. Doug and I exchanged parts. I also reminded him that I had included a one year subscription fee to QRPP in my check. He assured me that I was on the list. When I didn't receive the next issue, I emailed him again, and received an irritated response. It was clear that he was very busy with all of the work involved, and I decided to drop it. I've never gotten any QRPPs.

Sure, call me "TRASH." Doesn't change the facts. I am VERY happy with my Cascade, and I WOULD buy a Norcal kit again. Screw-ups do happen, it just happened to be my turn. And it's reasonable to expect that when you sent someone you don't know a substantial amount of money, you will get what you paid for. Why hold Norcal to a lower standard, and who has decided that they can't stand on their own?

Tim Huntington
N1PAZ
tmh@world.std.com

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: torell@sicom.com (Kent Torell)
Subject: [659] Propagation alert!
Message-ID: <v02130500ae089abeb84f@[192.91.202.41]>

Tonite's the nite! A major flare erupted this morning (x class, last seen in 1992), and the sun's solar flux shot up to 82 from last weeks 69. The geomagnetic field is still quiet, as the solar shock wave won't hit for another day. Then, the A index will be up around 20 for a few days. So, with the high flux, and quiet conditions, everyone should work alaska and hawaii tonite ;-)

Good luck!

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB70A TMPS 1996 Qs=013 States=10 Confirmed=01 DX=01
AK AZ CA CO HI KS OK OR TX WA

VE

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Raymond.Anderson@Eng.Sun.COM (Ray Anderson)
Subject: [654] QRM from touch-sensitive lamp
Message-ID: <9607092131.AA05892@radium.Eng.Sun.COM>

QRM Gurus:

I received the attached e-mail from Bob, AG8T a fellow worker here at Sun. Not having any experience with these touch-sensitive lamps, I was wondering if any of the qrp-1 group had any insight into his problem.

Thanks in advance for any help!

72's, Ray WB6TPU
raymonda@radium.eng.sun.com

>
>
> Are you familiar with the home lamps that you can turn on/off or
> change the brightness by simply touching the lamp with your finger? My guess
> is that they have an oscillator that changes frequency when you bring your
> hand close to the lamp. Do you know the frequency of oscillation?
>
> The reason why I'm asking is that I have a terrible QRM problem from
> LF through HF on my Drake transceiver in my apartment. I've never seen
> this kind of QRM before moving into my apartment. It's a really strange
> noise. There seems to be two fundamental frequencies with bandwidth from
> 190-192 kHz and 195-197 kHz or so, simultaneously. At every integer multiple
> of these frequencies I pick up the noise. Using the Drake in the AM mode,
> I scoped the audio and found that at the edges of these spectrums, i.e.,
> 192, 192, 195, and 197 kHz, the waveform has sharp, clean spikes that
> repeat at a 60 Hz rate. As I tune closer to the center of these band limits,
> I see another spike in between the 60 Hz spikes, thus the effective
> rate is 120 Hz. As I tune across the RF signal from 190 kHz to 192 kHz,
> first the "new" spike is in phase with the "old" spike, then, at about
> 191 kHz, the "new" spike is centered between the "old" spikes, and finally,
> at about 192 kHz, the "old" and "new" spikes are in phase again.
>
> The harmonics of these two noises are VERY strong and have bandwidths
> proportional to the integer harmonic numbers. Thus, when I get up to
> the 20 meter ham band, the noises have bandwidths of over 100 kHz. When

> I go to the 15 meter ham band, the noises seem to spread across the whole
> band with no gaps.
>
> This audio waveform on the scope is clearly different from the conventional
> power line sparking noise, which repeats at 120 Hz from the two high-voltage
> peaks in the AC signal per cycle.
>
> Because of the 60 Hz component to the audio signal, I am guessing that some
> appliance with a half-wave rectifier in its power supply is causing the noise.
> Perhaps the appliance has an oscillator at about 190 kHz. I'm now guessing
> a touch-control lamp, a wireless intercom, or some type of video equipment.
>
> The audio of the noise sounds a bit like the strong 60 Hz buzz that I hear
> when I tune in a TV video signal on my VHF scanner in the AM mode.
>
> The signal is being carried into my room from the electric wiring rather
> than from direct radiation, as far as I can tell.
>
> Have you heard from your ham friends whether the power company is responsive
> to RFI complaints? Do you have a contact at the power company who handles
> RFI problems?
>
> Thanks for any suggestions on this STRANGE QRM.
>
> Bob AG8T
>

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Edward J. Warhover" <kf9xy@apci.net>
Subject: [633] QRP Quarterly
Message-ID: <199607091427.JAA19849@hilly.apci.net>

I joined ARCI at Dayton, and I am wondering if the summer issue of the QRP
Quarterly is out yet. Should I have received one by now?

Tnx es 72,
Ed KF9XY

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Edward J. Warhover" <kf9xy@apci.net>
Subject: [658] QRP Quarterly
Message-ID: <199607092236.RAA31571@hilly.apci.net>

Gang,

Thanks to all who have responded on my question about the QRP Quarterly being out yet. About a dozen responses, and about 50% had received it so far. So I imagine my copy will arrive soon. Thanks also to Mike Bryce for checking and confirming my membership and mailing label.

72,
Ed KF9XY

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Dean Marzocca <n2tnn@ifu.net>
Subject: [668] Qsl info agn
Message-ID: <31E30614.1D7A@ifu.net>

Tnx to all for the quick response, you caught the goof before it was too late. The MM situation of being in international waters was a surprise. Maybe I will indicate on the card as boat mobile. It is something different and the other station always gets a kick out of hearing it.

I have listed below on the sig line the states I contacted while floating, and too bad there isn't an award for it. The log books will have to wait.

Agn, tnx for the help and listen on the 7.040 calling freq and you might hear /MM. Give a call back.

72,

Dean

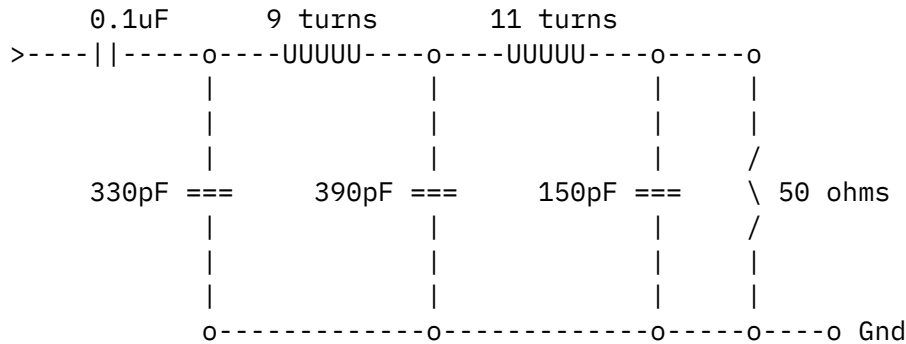
--

"HAM IT UP" 30 FT Cabin Cruiser via Barneget Bay, New Jersey
N2TNN FN20, Somerset, NJ // 10 meter MM // 40 M QRP/MM
WAS- MI,MO
MM/WAS-

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [674] Reverse engineering
Message-ID: <31e322cd.pandora@pandora.lugs.org.sg>

Hi Gang,

I am in need of some help here. Given a network circuit, how do I work backwards in order to find the transformations that are going on? The network in question is a double-pi 5-element low pass filter as shown below:-



The 2 inductors are wound on -2 (red) material for which I have estimated the A_L of about 50 or 51. Using this estimate (someone correct me) I have worked out the values of 0.4uH and 0.6uH respectively for the 9 and 11 turn toroids. I think the 0.1uF input capacitor can be ignored for practical purposes of network analysis. So given the operating frequency of about 14 MHz, we end up with the following:-

$$\begin{aligned} X_L (0.4\mu\text{H}) &= 35.2 \text{ ohms} \\ X_L (0.6\mu\text{H}) &= 52.8 \text{ ohms} \end{aligned}$$

$$\begin{aligned} X_L &= 2 * \pi * f * L \\ f &= 14 \text{ MHz} \end{aligned}$$

$$\begin{aligned} X_C (330\text{pF}) &= 34.5 \text{ ohms} \\ X_C (390\text{pF}) &= 29.1 \text{ ohms} \\ X_C (150\text{pF}) &= 75.8 \text{ ohms} \end{aligned}$$

$$X_C = 1 / (2 * \pi * f * C)$$

Output termination is 50 ohms (antenna)

As you can see, this is asymmetrical, unlike the more usual half-wave filters. I am not too sure how to treat the double-pi configurations. Do I regard it as 2 separate pi-filters? Should I perform network analysis on the whole thing? (I am very rusty in this area, need to dig up my old University texts).

If I were to take it as 2 separate pi-filters, can I arbitrarily split up the centre pole capacitor (390pF) into any 2 convenient values? Will this affect the transformations (I should think not)? Or is it not as arbitrary as I think.

Can someone help me go over this thing and find out what the input impedance is for the network given above. Preferably with the maths thrown in too so that I can do this myself next time. I don't mind a rule of the

thumb approach but would really prefer a more thorough mathematical treatment. TIA.

73 de 9V1ZV Daniel

p.s. I am using $N = 100 * \sqrt{L/A}$ to work out L which is in uH. A is estimated as 51 (or 50) based on the same formula from other known windings and inductances.

--

Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [665] S&S DVFO Review [Long]
Message-ID: <2.2.32.19960710002459.00aaa5c0@public.compusult.nf.ca>

QRP-L Gang,

As a follow-up to Chuck's nice QRP-L review on the S&S DVFO, the illustrious "FDIM(c)" (haven't heard that name in a while...) Technical Papers Chairperson - the Honourable (Canadian style) Mr. Bruce Muscolino W6TOY/3 has a very nice three page (yes 3 page) review of the new S&S Engineering 40 meter TAC-1 (with photos even) in the latest July 1996 issue of Worldradio.

Nice review by Bruce.

And As USUAL (I mean this in a good way) Richard Fisher KI6SN does a great review on the Ten Tec T-Kit Any Band direct conversion receiver also in the same issue (also with pictures). Worldradio is really making sure they cover QRP stuff in their QRP sized publication - and it's a West Coast monthly ham magazine to boot (think about that...)

73/72 Bob V01DRB/WA6ERB

PS: I wonder if anyone noticed that Bruce is using that "reviewers" ploy of working another noteworthy QRP writer for one of his first contacts on the TAC-1 - Bruce claimed that he worked QRP product reviewer Jeff Gold AC4HF on his first contact - do you REALLY think that us QRPers REALLY believe that - I think these QRP writers must make cellular phone calls to each other to set up a "first QSO with a new QRP rig" sked...

>Date: Wed, 3 Jul 1996 16:47:34 GMT
>Reply-To: adams@chuck.dallas.sgi.com
>Sender: owner-qrp-l@Lehigh.EDU
>From: adams@chuck.dallas.sgi.com (chuck adams)
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: S&S DVFO Review [Long]
>X-Listprocessor-Version: 7.2 -- ListProcessor by CREN

>

>

>

>Gang,

>

>While in Dayton, there was a lot of new stuff being shown and I guess
>a lot of money exchanged hands. :-) On this topic it is interesting
>to note the scale of economy and the jockeying for our (the radio amateur
>community) money. Since Dayton moved one month later a lot of hamfests
>around the country have moved or are planning on moving their dates to
>BEFORE Dayton in hopes that we, again the consumers, will have some
>money in hand and use it up before we go to Dayton.

>

>Anyway I purchased a TAC-1 for 40M and hand carried it home from Dayton
>and several weeks ago I was in the process of building it when a package
>arrived from S&S Engineering. This review is about that package. Now
>I can get back to the TAC-1 in time for the start of the fox season and
>be able to get up to 7.122MHz and work all those crystals that came by
>my doorsteps that will appear in 40-9ers. :-)

>

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-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRP'er Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
|               bgobrick@nlnet.nf.ca |
| Compuserve:   70466.1405@compuserve.com |
|-----
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From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [655] San Mateo, CA warning
Message-ID: <199607092132.VAA13025@chuck.dallas.sgi.com>

Just a warning to Stan Cooper, K4DRD, and the group in
the San Mateo CA area. On Sunday I will arrive and be
there until Friday staying near Wilshire and 2nd street.

Coming out your way to show people how to do special effects on computers that all that dweeb stuff. Graphics instruction ... :-)

So, let's do dinner. Someone pick a place and time in the area and I'll be there. Prefer Tuesday or Wednesday evening after 6:15pm.

Send me email. Sorry for the bandwidth gang.

dit dit

Oh, and turn up the air conditioning please.
I'm hoping the hotel has a place to put up an antenna that I can aim west. :-)

--

Chuck Adams (K5FO CP-60) adams@sgi.com
K5FO Tmps 1996 Qs=053 States=25 Confirmed=14 DX=02 (0.95W)
AL AZ CA CO DC DE FL GA IA IL IN MD MI MO
NC OH OK OR SD TN TX UT WA WI WY

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [672] sk7ax
Message-ID: <Pine.GS0.3.93.960709232127.4196B-100000@autarch.acsu.buffalo.edu>

Hi gang,
40m is alive and well. A lot less noise today. Worked SK7AX about 10 minutes ago. I had to increase speed to 30 wpm to snag him!
I love my Sierra..its 2 watts are plenty.
BTW where the heck is SK7 anyway...I didn't know which way to point my vertical :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [670] Solar Flares and Thunderboomers
Message-ID: <199607100247.CAA13600@chuck.dallas.sgi.com>

Gang,

Thanks to Kent for the announcement. So no sleep tonight heh?

You've heard about us in the news, us being the southwest and the heat. Well it broke today with only a high of 93, a cold front in July in the Dallas area, and at 0200UTC some serious thunderboomers in the area. So, if you're on tonight and you hear the QRN you know where part of it is coming from. TX.

At 0206UTC, in the middle of one of these thunderboomers I finally got KU7Y, Ron in Reno, on 30M for my 47th state on 30M in one year at 0.95W. It took us 5 minutes to get everything across between the static crashes. What other hobby will you find two people crazy enough to risk life and limb to exchange RST reports between the crashes? None.

He too is having thunderboomers, but of course that's what he does for a living - seeding clouds and causing rain in the desert. :-)

So it's official, his 579 my 229, but it's a wrap. So a public thanks to Ron for hanging in there when the going was tough.

So maybe I'll get AK in the same night. I'll be up til the band closes. QRN or no. :-) AK, ND, and RI to go. So close yet so far.

dit dit es gl to all

--

Chuck Adams (K5FO CP-60) adams@sgi.com
K5FO TMPS 1996 Qs=055 States=27 Confirmed=14 DX=02 (0.95W)
AL AZ CA CO DC DE FL GA IA IL IN MD MI MO
NC OH OK OR SD TN TX UT WA WI WV WY

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: wager@juno.com (James W. Cates)
Subject: [642] St. Louis Tuner Kits
Message-ID: <19960709.102446.3966.23.wager@juno.com>

As of ten A.M. this Tuesday, 9 July, four of the six gone via phone calls and E-mail. I will mail them this week. jim

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: wager@juno.com (James W. Cates)
Subject: [650] St. Louis Tuners: Gone.
Message-ID: <19960709.120534.3990.0.wager@juno.com>

Wow! That sure didn't
take long. Last order
received at noon, 7/9.

Tnx, everyone. jim

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [664] Summer Homebrew Sprint & BEST AWARDS
Message-ID: <2.2.32.19960710002443.00a8ea68@public.compusult.nf.ca>

QRP-L Gang,

I need to make a pitch here for the BESTEST AWARD that you can possibly
receive and that is the QRP ARCI Contest Award for winning your
State/Province/Country for any band, high band, low band or all band entry
in a QRP ARCI Contest.

I just received my FIRST PLACE NEWFOUNDLAND award for the 1995 Summer
Homebrew Sprint from Steven Pituch N2MNN and Cam Hartford N6GA. This award
is beuuutifull - floral multicolor boarder with official QRP ARCI Royal
Crest Signed in matching blue ink by Cam himself. The award came in a nice
"FRAGILE! DO NOT FOLD NOR BEND!" envelope (challenge for the mail service)
encapsulated in a clear vinyl envelope - FIRST CLASS and great job Cam and
Steven.

So don't hesitate to enter the Summer Homebrew Sprint this weekend - you
just may get a nice surprise in the mail for your efforts.

73/72 Bob V01DRB/WA6ERB

>Date: Mon, 1 Jul 1996 15:55:57 -0700 (PDT)
>Reply-To: camqrp@cyberg8t.com

>
>Gang -
>
>Mark your calendars for Sunday, July 14, for the next QRP ARCI Summer
>Homebrew Sprint. You should have had enough time by then to disassemble that
>large pile of junk in your garage (the one that came home with you from
>Field Day) and reassemble your station in your comfortable, air-conditioned
>and bug-free shack.
>
>Sunday, July 14, 2000 to 2400 Zulu. CW. Usual QRP frequencies. Complete
>rules in the July issues of the Quarterly and QST.
>Hope for some sunspots.
>
>72/73,
>Cam N6GA
>
>
>

```
-----  
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |  
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |  
| Internet:      rgobrick@nfld.com |  
|                bgobrick@nlnet.nf.ca |  
| Compuserve:   70466.1405@compuserve.com |  
-----
```

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [632] TenTec Used Prices
Message-ID: <199607091418.0AA10745@chuck.dallas.sgi.com>

Gang,

This was posted to Dayton group just before the big Dayton doings. I have once again gotten a request to post this, so I'm doing so. Individuals will think that some were high and some were low. These are from TenTec about two years ago. We all know how prices are at hamfests and Dayton and this list. Call TenTec to find current stock and prices if you want to see if they have used equipment in stock.

This is not a price list to set any standard. Just a

snapshot in time.

-----cut here-----

Here is a list that I have of what TenTec used to get for used equipment when it was in stock. For TenTec used equipment you had to catch 'em when they were in stock, i.e. when they got some item in trade for a new rig.

Again, these are just their prices at one time and may be used to derive a ballpark figure to shoot for or under for any deal. If anyone finds out that these are way off, let us know and we can discuss it. I'm sure that someone is going to jump on me for posting this and undercutting a deal in progress. :-) What the market will bear usually determines the price. I've seen prices too high and I've seen very good deals, so buyer beware.

No judgement is being made in these prices on condition of equipment other than TenTec guaranteed it for probably 30 days.

FYI

dit dit

-----cut here again-----

MODEL	DESCRIPTION	PRICE
225	525 Power Supply	\$ 50.00
227	200W Tuner	\$ 65.00
228	200W Tuner w/SWR	\$ 75.00
229/A/B	2KW Tuner w/SWR	\$ 185.00
234	RF Speech Processor	\$ 75.00
238	2KW Tuner w/SWR	\$ 275.00
242	540 Remote VFO	\$ 150.00
243	545/546 Remote VFO	\$ 150.00
244	540/545 Display	\$ 75.00
247	200W Tuner	\$ 50.00
251	520 Power Supply	\$ 50.00
252/G/MO	540/545 Power Supply	\$ 90.00
253	2KW Auto Tuner	\$ 775.00
254	200W Tuner w/SWR	\$ 140.00
255	546 Power Supply	\$ 90.00
260	580/560 Power Supply	\$ 90.00
262/G	544/546 Power Supply	\$ 90.00
263	560 Remote VFO	\$ 175.00
263G	561 Remote VFO	\$ 195.00

277	200W Tuner w/SWR	\$ 65.00
283	580 Remote VFO	\$ 150.00
301	562/563 Remote VFO	\$ 60.00
405	505/509/515 50W Amp	\$ 165.00
420	12V 500W Amp	\$ 975.00
422	1KW 3-500Z Amp	\$ 1295.00
425	1.5KW 3CX800 Amp	\$ 2000.00
505	QRP Argonaut	\$ 175.00
509	QRP Argonaut	\$ 275.00
510	Triton I	\$ 140.00
515	QRP Argonaut	\$ 395.00
520	Triton II	\$ 150.00
525	Argosy I Analog	\$ 395.00
525D	Argosy II Digital	\$ 450.00
535	Argonaut II	\$ 950.00
536	Delta II	\$ 1095.00
540	Triton IV	\$ 325.00
544	Triton Digital	\$ 425.00
545	Omni A	\$ 375.00
546	Omni D	\$ 450.00
546C	Omni C	\$ 500.00
560	Corsair I	\$ 575.00
561	Corsair II	\$ 1000.00
526	Omni V	\$ 1300.00
563	Omni VI	\$ 2000.00
570	Century 21 CW Only	\$ 175.00
574	Century 21 Digital	\$ 200.00
579	Century 22 CW Only	\$ 225.00
580	Delta I	\$ 475.00
585	Paragon	\$ 1475.00
936	536 Power Supply	\$ 160.00
960	561/585 Power Supply	\$ 125.00
961	562/563/585 Supply	\$ 150.00
969	579 Power Supply	\$ 50.00
9420	420 Power Supply	\$ 550.00

--

Chuck Adams (K5FO CP-60) adams@sgi.com
 K5FO TMPS 1996 Qs=053 States=25 Confirmed=14 DX=02 (0.95W)
 AL AZ CA CO DC DE FL GA IA IL IN MD MI MO
 NC OH OK OR SD TN TX UT WA WI WY

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
 From: bfollett@ditell.com
 Subject: [634] Unusual Solar Forecast
 Message-ID: <199607091519.JAA29046@orion.ditell.com>

Gang:

We haven't seen a report like this in a long time....Listen up

<<

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

SDF NUMBER 190 ISSUED AT 2200Z ON 08 JUL 1996

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100Z TO 08/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7978 (S10W24) PRODUCED SEVERAL C-CLASS EVENTS TODAY. THE LARGEST OF THESE WAS A C1/SF AT 0900Z. THE GROUP EXHIBITED SIGNIFICANT EMERGENCE OF MAGNETIC FLUX OVER THE PAST 24 HOURS. THIS FLUX EMERGENCE WAS ACCOMPANIED BY A REMARKABLE INCREASE IN SPOT AREA FROM 30 TO 210 MILLIONTHS OF A SOLAR HEMISPHERE. THE EMERGENCE OF NEGATIVE POLARITY SPOTS THAT HAVE COMBINED WITH A CENTRAL, POSITIVE POLARITY PORTION OF THE REGION HAVE LED TO THE FORMATION OF A MAGNETIC DELTA CONFIGURATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. THERE IS A SLIGHT CHANCE FOR THE OCCURRENCE OF AN ISOLATED M-CLASS EVENT FROM REGION 7978.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD WAS MOSTLY QUIET TO UNSETTLED FOR THE PAST 24 HOURS. A PERIOD OF ACTIVE LEVELS OCCURRED AT HIGH LATITUDES FROM 0600-0900Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS.>>

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Lau, Zack, KH6CP" <zlau@arrl.org>
Subject: [628] Using Blown Fuses?
Message-ID: <m0uddKO-000f4UC@mgate.arrl.org>

Has anyone built a QRP rig in the body of a blown glass fuse? With clear glass, you could easily show off your craftsmanship. The end caps could be used for RF and DC connections. In fact, you

might even use a fuseholder as a dipole support.

Zack KH6CP/1

BTW, I just tested some 0402 cased chip caps
at 10 GHz and they had pretty low loss.

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [640] Web Page
Message-ID: <199607091617.JAA02943@dancris.com>

Just what we need..another web page. But you are welcome to visit mine and
make comments, add URL's or whatever. Get to it at
<http://www.dancris.com/~ki7mn>. Please note the tilde in front of the call
(shows up on mine as a dash, which is incorrect).

Feel free to comment as appropriate.

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: nwqrp@scn.org (SCN User)
Subject: [639] [SeabeeMick@aol.com: I'm Interested in QRP-----help!!!]
Message-ID: <199607091617.JAA08541@scn.org>

===== Begin forwarded message =====

From: SeabeeMick@aol.com (unknown)
To: nwqrp@scn.org
Subject: I'm Interested in QRP-----help!!!
Date: Mon, 08 Jul

Name here is Mick (KC4QAA)
I am interested in going QRP but need help on how to find good low cost rigs,
do I homebrew or buy and stay lowpower?
Thought about purchasing Kanga Kits if you are familiar with them.
Advice is welcome. I have done hf before and I also do Packet.
TNX
Mick

```
--
      i                      NorthWest QRP Club
-=[scn]=-                    nwqrp@scn.org
      )|(                    http://www.scn.org/IP/nwqrp
      /_|\_ \                -----
                                --0---/\--
                                / ^\ ^\ / ^^\
                                --NW QRP--
```

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [631] RE: Amidon
Message-ID: <01BB6D76.8415A480@muenzlerk.uthscsa.edu>

On Tuesday, July 09, 1996 3:04 AM, Chip Owens[SMTP:owens@stout.atd.ucar.edu]
wrote:

```
>
>Would someone please post the current address & telephone
>number for Amidon? I know they have changed their address
>and phone number but I can't find the new one. Thanks!
>
>Chip Owens, NW00
>Boulder, CO
>
>
```

The latest address I have is:
Amidon Associates, Inc.
PO Box 956
Torrance, CA 90508
(310) 763-5770
(310) 763-2250 FAX

Kevin, WB5RUE

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: bob.roach@sourcebbs.com (BOB ROACH)
Subject: [623] RE: Code speed
Message-ID: <8C420A1.000103C668.uuout@sourcebbs.com>

MB>-Question: massive practice is probably the best way to increase copy speed
>-but has anyone here tried the commercial packages out there that claim to
>-teach code like a language, or some other trick to quickly boost your speed

Hello Mike,

One of the things that I have done is that any time I am watching TV I turn my computer on with Super Morse and have it send continuous QSO's at about double my current copying speed. This seems to cause two things to happen. First I get used to hearing CW and picking it out of other distractions and second after a while I start to hear and recognize words and groups of letters every when what's on the TV is interesting. Of course I am also practicing all time in the more conventional ways.

Hope this helps.

73 de KE4QOK
Bob

* SLMR 2.1a * Madness takes it's toll...Please have exact change.

This message originated from: ----- Selective Source BBS
----- Virginia Beach, Virginia
----- (804) 471 6776

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Dan Harriman" <KC5GXL@pnx.com>
Subject: [656] RE: Code speed
Message-ID: <199607092223.SAA145508@nss2.CC.Lehigh.EDU>

I think that there is a 3rd thing that would happen
(at least in my house) if I turned on the code
practice while watching TV. It usually means that
I would definitely be in the DOG HOUSE, BIG TIME!!!
Maybe he is single and no one else is in the room
with him:-)
73 de kc5gx1 aka Dan

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Paul Stroud <aa4xx@nando.net>
Subject: [661] Re: Help for Andy and the Ukrainian hams
Message-ID: <31E2FDD0.63D0@nando.net>

Dave Johnson wrote:

>

> Hi gang!
>
> I want to ask Paul, AA4XX, if he will supply info on the best way to
> get funds over to Andy, to help with the shipping of ham magazines to
> the Ukraine.
>
> I will send \$10.
>
> The costs for shipping to Europe are high, so we need to have some folks
> help out here. Please consider a donation to help our Ukranian ham
> friends! Their supply of radio literature is in need of improvement,
> and this will be a good gesture of friendship.
>
> What about it Paul, get a plan and send us info!
>
> Thanks!
>
> Dave WA4NID

Dear Knights,

One of the biggest needs our ham friends in Ukraine are experiencing is a dire lack of information. There are no technical libraries in the ENTIRE country that subscribe to ham related periodicals. Andy, UT5GM, is willing to coordinate the establishment of a ham library in Lviv, a city of about 10,000 in Western Ukraine. Lviv supports an active group of hams. The proposed ham periodicals would be made available to hams throughout Ukraine via local mail.

Bill, N8ET, has several boxes of duplicate QST's he is willing to send to Ukraine, but we need help with shipping costs. According to Andy, the present shipping rate is 79 cents/lb. I've asked Bill to estimate the weight, and we should have that information soon. We presently have three people who have expressed a desire to help with shipping, but to get Bill's entire supply over to Ukraine, we need more folks to step in.

It is Andy's intention to form a QRP group in his area. Any QRP related periodicals would be greatly appreciated. The Knightlites have included some issues of QQ, NEQRP, QRPP, and "The 5-Watter." as a start. If you have any QRP literature (books, mags, periodicals) that you would like to donate to the Ukrainian hams, you may send them to me for forwarding at the following address:
Paul Stroud, 1318 Alderman Circle, Raleigh, NC 27603

72,
Paul, AA4XX

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [644] Re: ICOM 735 (QRP HELP)
Message-ID: <Pine.3.89.9607091043.A25270-01000000@netcom18>

There's an easy fix for QRP down to milliwatt levels on the IC-735.

No modifications to the rig. No changes of any onboard settings. All external!!

It is as simple as introducing a small negative voltage into the center pin of the ALC jack on the rear panel..... I'm using a 1.5V AA battery and a 10k pot. Ground the battery positive terminal, connect the negative terminal to one end of the pot and connect the wiper (through a shielded cable) to the ALC input. This way it DOES NOT MATTER WHAT THE FRONT PANEL SETTINGS OR THE POWER LEVEL SETTINGS ARE ON THE ON-CHASSIS TRIM POTS! I found most of my operating settings occurring neat 1.2-1.3 volts. And believe it or not, using the ALC input method of power control, you can get right down to milliwatt levels!

I put my 'powerslider' in a blue RS plastic box, with an RCA jack for output and control the power setting by using a tuning knob. BEWARE: unless you install a switch across the battery, the battery will go dead by draining thru the pot. (The + side of the battery can connect to the RCA jack outer conductor so it will connect to the chassis ground of the transceiver when the shielded cable is connected between box and transceiver).

GL and happy operating. 73/72, de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: KT3A@aol.com
Subject: [657] Re: indoor antennas and EFI
Message-ID: <960709183409_152298903@emout12.mail.aol.com>

Gary,

I really loved your comments! There are a lot of lessons to be learned in doing indoor antennas. We are building a new 2 story home in those

anti-antenna (actually tower, as I've seen several variations of antennas) developments. I ran conduits using non-metallic electrical pvc conduit, to outlet boxes during construction. In the shack (den), I put a junction box in the wall 12" by 14" with (3) one inch and (1) 3/4 inch conduit. These lead to the attic. I also ran 2 inch conduit from basement to the attic. I have a run of 3/4 inch going from attic to rear of home at ground level. There are boxes in every room. The first floor has conduits going to the basement. This will give me flexibility. I will try a 40 meter dipole in the attic. I have about 40 feet across the length of the house. I was thinking of a loop maybe. That is where I need some advice. I am definitely going to have a 30 meter antenna and a 20 meter antenna. They will be dipoles. Maybe one for 15 meters. I will put VHF and UHF antennas up too. Outside, my stealth antenna may be a random wire or hidden verticle. I have some height as the house has a walk out basement in the rear. All I need to do is put up a purple martin bird house on top of a 20 foot mast! By the way, I will be glad for my Autek when the time comes to trim them!

72 de cameron, kt3a qrp

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
 From: jeffa@ix.netcom.com (Jeff Anderson)
 Subject: [620] Re: Info on Belden coax wanted.
 Message-ID: <199607090414.VAA25747@dfw-ix12.ix.netcom.com>

>Hello, does anyone know what the specs. is for Belden-E 89907 IEEE ?
 >Any info would be much appreciated.
 >Thanks.

>From my Belden catalog: 89907

RG-58/U type, Foamed FEP Teflon insulation, 50 ohm nominal impedance, 80% nominal vel. of prop., 25.4 pf/ft. Max oper. voltage (rms) 300.

Atten:	MHz	db/100ft
---		-----
	1	0.43
	10	1.3
	50	2.9
	100	4.2
	200	6.1
	400	8.9
	700	12.1
	900	13.9
	1000	14.8

Jacket is Gray fluorocopolymer (don't know how this holds up to UV or temp.)

- Jeff, WA6AHL

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [625] Re: Missing components in 49-er kit...
Message-ID: <31E22508.4FBA@amsat.org>

DALE- there is no reason to post "TRASH" mail to the reflector. NorCal puts out a kit(s) that are sometimes better than most commercial kits. NORCAL has a satisfaction guarantee. If you need a part that was mistakenly not put into your kit, you should have sent a message to either Doug or Jim, who would have seen to it that you would get the correct part promptly.

Norcal kits are: designed by fellow qrpers
designed and packaged at no cost to the kit buyer
supported by more people than any commercial kit
excellent value and quality
known world wide

72 de Phil AC6LS

Dale Anderson wrote:

>
> Hi Everyone,
>
> Yeah, yeah, I know you're all sick of the 49-er email.
> I am one of the latest to build one (had to wait 'til
> they packaged one with the novice/tech band xtal).
> Anyway, spent an hour or so throwing mine together this
> weekend. I discovered there were two missing components
> and one extra of the wrong value. Specifically, there
> were two 10 Ohm resistors included (only need one), but
> I was missing a 10M Ohm. (No problem, RatShack sells 'em).
> The big one tho', is I'm also missing Q3. You know, the
> FINAL! Instructions reference it by two different numbers,

> a 2SC799 and 2N3866 (not sure which it was supposed to be
> shipped with). Anyway, the RX works great (first try) and
> tests show the first stage of TX is working too. I just
> need the final. I realize this isn't supposed to be a
> retail quality kit and I'm not one to whine (yeah, right)
> but it would've been nice to have all the parts included.

> 72 es 73
> de Dale, KB0VCC / QRP-L #91 / CQC #251

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: John E Hunt <johnh@mdhost.cse.tek.com>
Subject: [649] Re:PVC tubing for mast
Message-ID: <199607091839.LAA22671@mbddoc8.cse.tek.com>

NS80 wrote:

> Then a tug downward on a
> pulley arrangement in the top of the 2" PVC pipe pulls the 1 1/2" PVC pipe
> upward out of the 2" PVC. This telescopes the mast up to the full 18'
> height.
>

I would like more details on the pully arrangement. I have a mast I want
to raise in a similar manner.

73 de John K7SII

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: weinfurtner@ouvaxa.cats.ohiou.edu (Greg Weinfurtner)
Subject: [653] Re:PVC tubing for mast
Message-ID: <v01510100ae0860530da3@[132.235.72.11]>

>NS80 wrote:

>> Then a tug downward on a
>> pulley arrangement in the top of the 2" PVC pipe pulls the 1 1/2" PVC pipe
>> upward out of the 2" PVC. This telescopes the mast up to the full 18'
>> height.
>>
>

Thanks for the interest! 73 de

```
*****
*                               Greg Weinfurtner AEE BSS *
*      NN      N      SSSSSSS  88888888  00000000  Electronic Design Splst *
*      N N     N      S          8      8  0      0  Ohio University   Athens *
*      N N     N      SSSSSSS  88888888  0      0  GO BOBCATS! *
*      N      N N          S      8      8  0      0 *
*      N      NN      SSSSSSS  88888888  00000000 *
*
*                               Can thou send forth lightnings *
*                               that they may go and say unto *
*                               thee, 'Here we are'? Job 38:35 *
*
*      weinfurtner@ouvaxa.cats.ohiou.edu *
*      http://ouvaxa.cats.ohiou.edu/~weinfurtner *
*****
```

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "David D. Meacham" <ddm@datatamers.com>
Subject: [647] Re: QRP Quarterly
Message-ID: <Pine.LNX.3.91.960709110615.2512A-1000000@dt1.datatamers.com>

Ed,
I don't have mine yet!
72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [626] Re: QSL help
Message-ID: <31E22BA4.6FB3@amsat.org>

Dean Marzocca wrote:
>

> #2 I am also QRP. I indicate this on my card, how do I confirm
> that it was a qrp contact?

Here is what I have done so that the recepiant of my qsl will recall/see
that I was operating QRP

went to the local office supply store (try any bussiness oriented bussiness)
ordered a self-inking stamper that has at quaranteed minimum of at least a
couple thousand impressions of /QRP in 1/2 inch tall BOLD letters in
RED ink.

just stamp ur qsl in an appropriate place.

72 de Phil AC6LS

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [630] Re: QSL help
Message-ID: <Pine.OSF.3.91.960709095648.15534B-1000000@saturn.acs.oakland.edu>

On Mon, 8 Jul 1996, Dean Marzocca wrote:

> #1 If I am Maritime mobile, aka floating in the ocean, what do I
> put on the card to indicate that I am MM and is "off NJ coast"
> acceptable???

Sure, even better would be to indicate your Grid Square! If you have a
GPS unit on the boat, it would be easy to verify.

> #2 I am also QRP. I indicate this on my card, how do I confirm
> that it was a qrp contact?

You can't. The other station has to put your call as /QRP or some other
indication that HE recognized you were QRP. You can only acknowledge
(after all, that's what QSL means) that the OTHER station is QRP, or
mobile, or whatever on your outgoing QSL card.

> #3 Is there any other info that should be placed on the card?
> This is new to me and I want to get new cards printed but I want
> to get it right before I send them out. Any comments will be welcome.

Here's a couple tips I've gathered over the years.

- DXers and other active QSL Card collectors like having all the
information on one side of the card.
- Include your grid square or space to write one in on the card.
- Include club affiliations and membership numbers (10-10, etc)
- Place a "TNX/PSE QSL" line on the card, so you just circle or

cross out whether you need a card or are replying to one.

vy 73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Sjolin@aol.com
Subject: [673] Re: Recieved My First QRPP!!
Message-ID: <960709234626_573379712@emout15.mail.aol.com>

In a message dated 96-07-08 23:44:07 EDT, n5zgt@swcp.com (Brian Mileschosky) writes:

> Well, my first issue of QRPP finally came in, and it was worth the wait!
>What a great issue! Thanks to everybody who put their work into such a great
>publication!

I second the compliments. Got mine yesterday and its great! 73 de Dave, N0IT

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [666] Re: SW-40
Message-ID: <2.2.32.19960710002518.00ac91d0@public.compusult.nf.ca>

Brad, Dave and QRP Gang (and anyone who wants to read... hi)

I also have to speak out and say that I think the Small Wonder Labs SW-40 (SW-xx) is ONE of the best starter rigs for a QRPer. It was one of my first "real" kit rigs (mine was the New England QRP club NE4040 version), after years of building Heath stuff and since then I've build just about every qrp rig out there (well maybe not the Hands rig YET).

Dollar-for-dollar (US or Canadian) it is the BEST rig available and for \$50 bucks US and another \$25 for the nice cabinet it is hard to beat - and it PERFORMS. I am not going to knock the competitors (since I think they have great rigs) but Dave Benson's NN1G elegant and simple design really performs and it is a great light weight rig for those Spartan Sprints. See if you can find anything in it's weight class at that price.

I built both the 40 and 30 meter models and I have my 40 meter one mounted in one of my "Americana" designer series cabinets (actually a Christmas promotional by Levi Strauss that had 3 belts in a can - told my wife I NEEDED the belts - right...).

Thanks guys for reminding us of one of the great rigs that really started this QRP boom thing (I even remember getting mods for the rigs back in the early days of the QRP-L list - boy that really dates me...)

Caio 73/72 Bob V01DRB/WA6ERB

I have no commercial connection - just happen to know Dave and the New England QRP Gang and yes I guess I do have an interest in promoting these two people/groups so forget what my disclaimer says...

At 12:56 7/7/96 -0400, you wrote:

>hi brad and gang
>first off congrats on finishing your 40/40.
>ive had mind about the last 2 years and i could not agree
>with you any more on why we dont hear more chatter about this
>great little rig.....ive got about 35 states confirmed with
>this little baby and thats just using it off and on...and
>the best part of this whole story is most of the contacts
>have been with 700mw!!!!!!also worked Tenn.with 50mw....
>again good job and well done be dave benson....
> AA2PF.....DAVE.....
> part of the Buffalo QRP connection...
>
>

Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada
QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP
Internet: rgobrick@nfld.com
bgobrick@nlnet.nf.ca
Compuserve: 70466.1405@compuserve.com

From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [669] Re: SW-40 etc.
Message-ID: <19960708.221254.2343.0.WB8YGG@juno.com>

On Wed, 10 Jul 1996 01:25:18 +0100 "Robert J. Gobrick"
<rgobrick@nfld.com>

Lots chopped (on Purpose this time)

>great rigs) but Dave Benson's NN1G elegant and simple design really
>performs
>and it is a great light weight rig for those Spartan Sprints. See if
>you
>can find anything in it's weight class at that price.
>

I was thinking about that Spartan sprint thing, and looked up spartan in the dictionary.. Maybe because I went to Michigan State.... but whatever..

Anyway, it says words like Simplicity, Austerity, Discipline, Fortitude, and

Courage. Austerity keeps ringing in my ear. Maybe another category for Spartan sprints could be QSO's/\$, but then I would hate to keep the receipts for all my resistors!

73 Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: JessQRP@aol.com
Subject: [662] Re: SW-40/SW30
Message-ID: <960709204559_573239029@emout13.mail.aol.com>

hi,

No the screws go on the outside and the nuts on the inside. It's just really really tight. 30 khz is about right for the band spread when using the stock cap that sets the tuning range. I fiddled around with swapping this cap for some larger ones but did not find the instability that it created was worth the hassle.

I would be curious to know how much power you are getting out before the transmitter starts motor boating (putting or thumping). You should adjust the power out so that it just gets to the point where it will not break down and oscillate and call it good there. If you are getting about 1.5-2 watts out, that is great. I keep mine at 1 watt and it works good. The SW 30 only puts out about 700 mls and that is fine too. Dave Benson makes a "hot rod" kit for the SW series radios that I believe are about 5 bux and are supposed to increase the power out to about 3 watts but you must heat sink the final transistor.

As far as the screws go, if you are careful about how you out them in they will fit!

Best

Jess N0TFI

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [667] Re: TS-50S for QRP
Message-ID: <2.2.32.19960710002535.00adf07c@public.compuser.net>

Phil,

The following is an article that I wrote a number of years ago and finally found it on QRP CD Rom.

Good luck 73/72 Bob V01DRB/WA6ERB

"Honey - I Shrunk the Rig"
by Bob Gobrick WA6ERB

No this is not an article about Kenwood shrinking their new TS-50 HF rig into a "CB" sized package, but the "shrinking" of the low power level on the TS-50 from 10 watts to 5 watts output in order to "officially" comply with the nationally recognized QRP power level for contest operation.

Prepare yourself before you remove any covers from the TS-50 - this is no Hallicrafters (feel a little dated) with 6L6's glowing in the inside. All components are surface mounted and to conserve space surface mounted subassemblies stand up at right angles all over the place. No place to work with that stubby tipped Weller soldering gun. But have no fear, this QRP mod is simple - you just need a screwdriver with a blade the size of a toothpick.

If you check the schematics you will see on the TX/RX board two potentiometers to set the Low 10 watt (pot VR15) and Medium 50 watt (pot VR16) power levels. The high power level is fixed at 100 watts by resistor R214. Our goal is to get to VR15 and set it for a 5 watt output.

First remove the top cover, set aside speaker and remove the latched speaker bracket (gives you better operating room). Locate two teeny-weeny pots next to IF filter module in the middle of the TX/RX board. The pot closest to the front panel is VR15 (low power adjust) and the one closest to the back of the rig is VR16 (medium power adjust) - the pots are somewhat marked on the PC board. Hook up a QRP wattmeter, dummy load and power and while in the low power mode adjust the pot (I used a flat blade calibration tool I had around) for 5 watts. That's it. You may notice that you can crank the pot all the way down to 0 watts so set where you want. I suspect the medium power adjustment with VR16 can also go to zero so maybe you can go QRPp by setting the low power

pot for 999 mw and the medium power pot for 5 watt.

PS: Kenwood Service cautioned that their automatic antenna tuner requires 10 watts to actuate so this adjustment may affect that operation. You may want to check if Kenwood actuates the low power mode when the antenna Tune button is pressed. Also don't expect to run this rig off of a small solar cell for field day - the unit and all of it's surface mounted components draws a bit of power - enough for the internal fan to come on even in the QRP low power mode.

At 20:34 7/8/96 -0700, you wrote:

>I often travel with my TS-50. I've seen somewhere (likley here) info
>on converting it so one of the power settings can be at 5 watts. I
>think it can either be the low one or the medium one. I also use it
>with an AT-50, which (I believe) uses one of these lower power settings
>for tuning...that MAY preclude reducing the 10 watt level to 5 watts.

>

>Anyway, I would appreciate any advice on this; would be a good way to
>try QRP SSB (since I don't have a Cascade or such).

>

>Phil W7UOX

>

>

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-----
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
|                bgobrick@nlnet.nf.ca |
| Compuserve:   70466.1405@compuserve.com |
|-----
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From owner-qrp-l@Lehigh.EDU Tue Jul 9 23:13:07 1996

From: "Phillip S. Rutledge" <rut@mcrut.mv.com>

Subject: [663] Re: V2L .gif

Message-ID: <199607100056.UAA23990@bort.mv.net>

I wholeheartedly agree with Brad's assessment of the V2L paddle. I've been using one for several months now and think it's the best. I've turned at least two others on to it who have made the purchase and are also quite pleased. Plus, you get to deal with the maker himself, Stan Hails, a colorful character in his own right!

==Phil==(NH)

* Phil Rutledge--KB1GO-- rut@mcrut.mv.com *

From owner-qrp-1@Lehigh.EDU Tue Jul 9 23:13:07 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [646] Re: [SeabeeMick@aol.com: I'm Interested in QRP-----help!!!]
Message-ID: <199607091823.MAA07286@zia.aoc.nrao.edu>

Mick (and others),

I am just finishing building my Hands GQ-20 (20M QRP transceiver) I got from Kanga US at Dayton. Heard my first 20M signals on it this July 4th (yup, got my BRITISH rig working on the AMERICAN Independence Day. Politically correct, or what?). It is a fairly ambitious kit over some of the others, but indeed, well worth it. Great performance specs, push-pull finals, passive receive mixer, 6-pole IF filter, etc.

Also working on the Mini-R2 direct-conversion receiver and transmitter from Kanga US. The audio from the R2 board is surprisingly clean sounding. It uses a phasing technique to eliminate one of the sidebands so you don't get the typical signal on both sides of zero beat typical to most direct-conversion receivers. It has changed my opinion on on D-C receivers.

I don't own stock in the company or get kick backs from Kanga for saying nice things. Just responding with first hand experience on your specific question on Kanga equipment.
I think their email is ... kanga@bright.net

GL, Paul NA5N